

# REVERE SURVIVAL INC.

Safety Data Sheet

Marine Liferafts

## SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|                                   |   |   |                             |                              |  |
|-----------------------------------|---|---|-----------------------------|------------------------------|--|
| <b>PRODUCT NAME</b>               | Liferaft, Self Inflating, Marine Type                                     |   |                             |                              |  |
| <b>TRADE NAMES/SYNONYMS</b>       | <u>Model No.</u>  | <u>Part No.</u>   | <u>Model No.</u>            | <u>Part No.</u>              |  |
|                                   | Offshore Elite 4  | 45-OE4( )   | Offshore Ocean 4            | 45-OO4( )                    |  |
|                                   | Offshore Elite 6  | 45-OE6( )   | Offshore Ocean 6            | 45-OO6( )                    |  |
|                                   | Offshore Elite 8  | 45-OE8( )   | Offshore Ocean 8            | 45-OO8( )                    |  |
|                                   | Coastal Elite 4   | 45-CE4( )   | Coastal Cruiser 6 Valise    | 45-96610316-V                |  |
|                                   | Coastal Elite 6   | 45-CE6( )   | Coastal Cruiser 6 Container | 45-96610317-C                |  |
|                                   | Coastal Elite 8   | 45-CE8( )   | Coastal Cruiser 6 XT        | 45-CCXT6V                    |  |
|                                   | Coastal Cruiser 2.0   | 45-CCZR6( )   | ISAF Rescue Racer XT 4      | 45-RRXT4( )                  |  |
|                                   | Coastal Commander   | 45-COASTCO6( )  | ISAF Rescue Racer XT 6      | 45-RRXT6( )                  |  |
|                                   | Offshore Commander 4  | 45-OC4( )   | ISAF Rescue Racer XT 8      | 45-RRXT8( )                  |  |
|                                   | Offshore Commander 6  | 45-OC6( )   | ISAF Rescue Racer XT 10     | 45-RRXT10( )                 |  |
|                                   | Offshore Commander 8  | 45-OC8( )   | Ocean ISO 4                 | 45-OISO4( )                  |  |
|                                   | Coastal Commander 2.0   | 45-COASTCO2-6( )  | Ocean ISO 6                 | 45-OISO6( )                  |  |
|                                   | Offshore Commander 2.0 / 4  | 45-OC2-4( )   | Ocean ISO 8                 | 45-OISO8( )                  |  |
|                                   | Offshore Commander 2.0 / 6  | 45-OC2-6( )   | Revere USCG/SOLAS           | 45-REV-CGS-4 – 45-REV-CGS-25 |  |
|                                   | Offshore Commander 2.0 / 8  | 45-OC2-8( )   | 3Si USCG/SOLAS              | 45-3SI-CGS-4 – 45-3SI-CGS-25 |  |
|                                   | Revere IBA  | 45-REV-IBA-(4-50)   | 3Si IBA                     | 45-3SI-IBA-(4-50)            |  |
|                                   | <b>PRODUCT USES</b>   | Inflatable liferaft for emergency use on recreational/pleasure or commercial boats. |                             |                              |  |
|                                   | <b>MANUFACTURER'S NAME</b>  | Revere Survival Inc.  |                             |                              |  |
|                                   | <b>Street Address:</b>  | 5323 Highway Ave.   |                             |                              |  |
| <b>City</b>                       | Jacksonville  |   |                             |                              |  |
| <b>State/Province</b>             | Florida, USA  |   |                             |                              |  |
| <b>Postal Code</b>                | 32254   |   |                             |                              |  |
| <b>Emergency Telephone Number</b> | (INFOTRAC) Within USA/Canada 1-800-535-5053; International 1-352-323-3500 |   |                             |                              |  |
| <b>SUPPLIER'S NAME</b>            | Same as manufacturer listed above.  |   |                             |                              |  |
| <b>Street Address:</b>            |   |   |                             |                              |  |
| <b>City</b>                       |   |   |                             |                              |  |
| <b>State/Province</b>             |   |   |                             |                              |  |
| <b>Postal Code</b>                |   |   |                             |                              |  |
| <b>Emergency Telephone Number</b> |   |   |                             |                              |  |

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**SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS**

| HAZARDOUS INGREDIENTS   | %<br>(by weight) | CAS Number | LD <sub>50</sub> | LC <sub>50</sub> |
|---|------------------|------------|------------------|------------------|
| Not Applicable (N/A)  | ---              | ---        | ---              | ---              |
| Hazardous mixtures of other liquids, solids, or gases:<br>1.- Carbon Dioxide, Compressed, CAS# 124-38-9, UN1013<br>2.- Nitrogen, Compressed, CAS# 7727-37-9, UN1066<br>3.- Pyrotechnic Signaling Device (flares) including:<br>Signal Devices, Hand, UN0191, 1.4G<br>Cartridges, Signal, UN0405, 1.4S<br>Signals, Smoke, UN0197, 1.4G<br>Articles Pyrotechnic, UN0432, 1.4G<br>Flares, Aerial, UN0403, 1.4G<br>Cartridges, Signal, UN0312, 1.4G<br>Signals, Smoke, UN0507, 1.4S<br>Flares, Aerial, UN0505, 1.4G |                  |            |                  |                  |

**SECTION III – HAZARDS IDENTIFICATION**

Liferaft contains a steel or aluminum cylinder of gas under pressure which may discharge or rupture under extreme temperatures. Liferaft contains pyrotechnic signaling devices (flares) that are explosive. Flares will burn with intense heat when exposed to fire. Keep away from flame or flame producing sources.

**SECTION IV – FIRST AID MEASURES**

|                     |     |
|---------------------|-----|
| <b>SKIN CONTACT</b> | N/A |
| <b>EYE CONTACT</b>  | N/A |
| <b>INHALATION</b>   | N/A |
| <b>INGESTION</b>    | N/A |

In general, liferafts present no hazards that would require first aid measures.

**SECTION V – FIRE FIGHTING MEASURES**

|   |   |
|---|---|
| <b>Flammable:</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - identify under which conditions | Liferaft contains pyrotechnic signaling devices (flares) that are explosive. Flares will burn with intense heat when exposed to fire.                   |
| <b>Means of Extinction</b>  | Large volumes of water  |
| <b>Special Fire Fighting Procedures:</b>  | Pyrotechnic signaling device (flares) may include material that contains its own oxygen to maintain burning. Do not try to smother or use dry chemical. |
| <b>Flashpoint (°C) and Method</b>   | N/A   |
| <b>Upper Flammable Limit (% by volume)</b>  | N/A   |
| <b>Lower Flammable Limit (% by volume)</b>  | N/A   |
| <b>Autoignition Temperature (°C)</b>  | Auto Ignition > 175 °C (350 °F)   |
| <b>Explosion Data - Sensitivity to Impact</b>   | N/A   |
| <b>Explosion Data - Sensitivity to Static Discharge</b>   | N/A   |
| <b>Hazardous Combustion Products</b>  | May form harmful fumes under fire conditions. Use air-ventilated full mask and full protective clothing when fighting fires.                            |

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Marine Liferrafts

**SECTION VI – ACCIDENTAL RELEASE MEASURES**

|                                  |  |
|----------------------------------|--|
| <b>Leak and Spill Procedures</b> | Hazardous materials are contained in sealed units within packed liferaft. Spills should pose no threat if the sealed units are not breached. If compressed gas cylinder ruptures, ventilate area. If pyrotechnic signaling device ruptures, material spilled from unit should be swept away and burned by trained personnel. Ignition sources must be avoided. Handle materials with care. |
|----------------------------------|--|

**SECTION VII - HANDLING AND STORAGE**

|  |   |
|--|---|
| <b>Handling Procedures and Equipment</b> | Do not drop the packed liferaft. Do not pull the inflation lanyard (painter line) on the raft. Only lift the packed raft by its handles if packed in a fabric valise. If raft is packed in a hard container, lift from bottom. Opening the raft valise or hard container may cause the raft to inflate. Liferaft can cause injury if inflated close to people or in a confined area. The liferaft's compressed gas cylinder is equipped with a pressure relief device. The device will vent gas from the cylinder if stored at temperatures above 130°F. The raft may partially or fully inflate if the pressure relief device activates. |
| <b>Storage Requirements</b>              | These units should be stored in a cool, dry area away from danger of sparks, heat or flame.   |

**SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION**

|   |     |
|---|-----|
| <b>Exposure Limits:</b> <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)   | N/A |
| <b>Engineering Controls (specific)</b>  | N/A |
| <b>Personal Protective Equipment:</b> <input type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input type="checkbox"/> Eye <input type="checkbox"/> Footware <input type="checkbox"/> Clothing <input type="checkbox"/> Other<br>(if checked, specify type) | N/A |

**SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**

|  |     |
|--|-----|
| <b>Physical State</b>                        | N/A |
| <b>Odor and Appearance</b>                   | N/A |
| <b>Odor Threshold (ppm)</b>                  | N/A |
| <b>Specific Gravity</b>                      | N/A |
| <b>Vapor Density (air=1)</b>                 | N/A |
| <b>Vapor Pressure (mmHg)</b>                 | N/A |
| <b>Evaporation Rate</b>                      | N/A |
| <b>Boiling Point (°C)</b>                    | N/A |
| <b>Freezing Point (°C)</b>                   | N/A |
| <b>pH</b>                                    | N/A |
| <b>Coefficient of Water/Oil Distribution</b> | N/A |
| <b>Solubility in Water</b>                   | N/A |

**SECTION X – STABILITY AND REACTIVITY**

|  |
|--|
| <b>Chemical Stability:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Identify under which conditions<br>Stable under normal temperatures and conditions. |
| <b>Incompatibility with other substances:</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Identify which ones<br>N/A                                       |
| <b>Reactivity, and under what conditions?</b><br>N/A   |
| <b>Hazardous Decomposition Products</b><br>May form harmful fumes under fire conditions.   |

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**SECTION XI- TOXICOLOGY INFORMATION**

|                                      |     |
|--------------------------------------|-----|
| Effects of Acute Exposure            | N/A |
| Effects of Chronic Exposure          | N/A |
| Irritancy of Product                 | N/A |
| Respiratory Sensitization            | N/A |
| Carcinogenicity – IARC               | N/A |
| Carcinogenicity – ACGIH              | N/A |
| Reproductive toxicity                | N/A |
| Teratogenicity                       | N/A |
| Embryotoxicity                       | N/A |
| Mutagenicity                         | N/A |
| Name of synergistic products/effects | N/A |

**SECTION XII – ECOLOGICAL INFORMATION**

|                  |     |
|------------------|-----|
| Aquatic Toxicity | N/A |
|------------------|-----|

**SECTION XIII – DISPOSAL CONSIDERATIONS**

|                |  |
|----------------|--|
| Waste Disposal | Incineration is the preferred method of disposal of pyrotechnic materials. Any compressed gas released will dissipate into the atmosphere and leave no hazardous waste. Other solid portions of the liferaft may be disposed of as domestic waste in accordance with local laws and regulations. |
|----------------|--|

**SECTION XIV – TRANSPORT INFORMATION**

|                              |   |
|------------------------------|---|
| Special Shipping Information | Classified according to DOT, ADR, IMDG, and IATA:<br>UN2990<br>Class 9<br>Proper shipping name: Life Saving Appliance, Self Inflating |
|------------------------------|---|

|      |  |
|------|--|
| DOT  | See Above and 49CR172.101 and 49CFR173.219 |
| IMO  | See Above                                  |
| IATA | See Above                                  |

**SECTION XV – REGULATORY INFORMATION**

|      |  |
|------|--|
| OSHA | As required by US federal regulations. |
| SERA | N/A                                    |
| TSCA | N/A                                    |

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## SECTION XVI- OTHER INFORMATION

**Disclaimer Liability:** Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this MSDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

**User Responsibility:** This MSDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this MSDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.